

940 South Harney St., Seattle. Washington 98108 (206)767-5060

Chemistry Microbiology and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546

Seattle, WA 98124

LABORATORY NO. 1658

DATE: Jan. 10, 1987

PO# M 1499

REPORT ON:

LIQUID

SAMPLE

IDENTIFICATION:

Submitted 1/06/87 and identified as shown below:

ID# 3600-M1499

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

 Zinc
 0.041

 Chromium
 0.025

 Copper
 0.044

 Nickel
 L/0.01

Key

L/ indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

JMO:laj





940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546

Seattle, WA 98124

LABORATORY NO. 1657

DATE: Jan. 10, 1987

PO# M 1498

REPORT ON:

LIQUID

SAMPLE

IDENTIFICATION:

Submitted 1/06/87 and identified as shown below:

ID# 3200-M1498

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

 Zinc
 0.084

 Chromium
 1.5

 Copper
 0.43

 Nickel
 0.81

Respectfully submitted,

Laucks Testing Laboratories, Inc.

∕J. M. Owens

JMO:laj

JAN 1 2 1987





940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546 Seattle, WA 98124 LABORATORY NO. 1659

DATE: Jan. 10, 1987

PO# M 1500

REPORT ON:

LIQUID

SAMPLE

IDENTIFICATION:

Submitted 1/06/87 and identified as shown below:

1) ID# 3200-M1500

2) ID# 3600-M1500

TESTS PERFORMED AND RESULTS:

1

2

Specific Gravity at 25 C

1.275

1.140

Total Acidity, calculated as % HNO3 (methyl orange end point)

9.6

8.3

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO:laj

JAN 1 2 1987





940 South Harney St., Seattle. Washington 98108 (206)767-5060

Chemistry. Microbiology. and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546

Seattle, WA 98124

LABORATORY NO. 1658

DATE: Jan. 10, 1987

PO# M 1499

REPORT ON:

LIQUID

SAMPLE

IDENTIFICATION:

Submitted 1/06/87 and identified as shown below:

ID# 3600-M1499

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Key

L/ indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

JMO:laj

JAN 12 1987



# Testing Laboratories, Inc.



LABORATORY NO. 1930

DATE: Feb. 5, 1987

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546 Seattle, WA 98124 ATTN: Jim Brown

PO# M1634

REPORT ON:

LIQUID

SAMPLE

IDENTIFICATION:

Submitted 1/22/87 and identified as shown below:

1) 24 hour Composite Sample at 3200 1/21/87 ID 3200

2) Grab Sample at 3200 1/21/87

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

	1	2
_	9.7	0.63
	7.5 0.28	0.69

Chromium Copper Nickel Zinc

Respectfully submitted,

Laucks Testing Laboratories, Inc.

JMO:laj



## Testing Laboratories, Inc.



LABORATORY NO. 2149

DATE: Feb. 12, 1987

PO# M1730

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry Microbiology, and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546 Seattle, WA 98124

ATTN: Jim Brown

REPORT ON:

WASTE DISCHARGE

SAMPLE

IDENTIFICATION:

Submitted 2/03/87 and identified as shown below:

ID#3200

TESTS PERFORMED AND RESULTS:

parts per million (mg/L)

Zinc --0.35 Chromium --2.7 Copper -1.1 Nickel · 2.0

Respectfully submitted,

Laucks Testing Laboratories, Inc.

JMO:laj







Certificate

LABORATORY NO. 2145

DATE: Feb. 12, 1987

PO# 1732

940 South Harney St., Seattle, Washington 98108 (206)767-5060

Chemistry. Microbiology. and Technical Services

CLIENT: Alaskan Copper Works

P.O. Box 3546 Seattle, WA 98124

ATTN: Jim Brown

REPORT ON:

WASTE LIQUID

SAMPLE

**IDENTIFICATION:** 

Submitted 2/03/87 and identified as shown below:

1) Nitric Acid Sample ID# 3200-M1732

2) Metro Waste Discharge ID# 3600-M1732

TESTS PERFORMED AND RESULTS:

Specific Gravity at 25 C

Total Acidity, calculated as % HNO3 (methyl orange end point)

8.6

parts per million (mg/L)

Chromium Copper Nickel Zinc

L/0.005 0.035 L/0.01 0.039

2

1

1.252

Key

L/ indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.

J. M. Owens

JMO: laj

